

Name _____ Date _____

2.3 MULTIPLYING RADICAL EXPRESSIONS

Simplify each radical expression

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| 1. $\sqrt{12} \cdot \sqrt{12} =$ |
| 2. $\sqrt{8} \cdot \sqrt{6} =$ |
| 3. $\sqrt{10} \cdot \sqrt{8} =$ |
| 4. $\sqrt[3]{9} \cdot \sqrt[3]{6} =$ |
| 5. $\sqrt[3]{10} \cdot \sqrt[3]{25} =$ |
| 6. $6\sqrt{3} \cdot 2\sqrt{8} =$ |
| 7. $-8\sqrt{14} \cdot 4\sqrt{2} =$ |
| 8. $\sqrt[3]{16} \cdot \sqrt[3]{12} =$ |
| 9. $\sqrt{12a^3b^7} \cdot \sqrt{8a^5b^2} =$ |
| 10. $\sqrt{8a^{11}b^5} \cdot \sqrt{5a^7b^{13}} =$ |
| 11. $\sqrt{10a^{13}b^9} \cdot \sqrt{5a^4b^2} =$ |
| 12. $5\sqrt{2a^6b^7} \cdot 2\sqrt{10a^{11}b^5} =$ |
| 13. $4\sqrt{3a^9b^{11}} \cdot 3\sqrt{6a^4b^8} =$ |
| 14. $2\sqrt[3]{8a^{13}b^8} \cdot 4\sqrt[3]{9a^9b^6} =$ |
| 15. $5\sqrt[3]{12a^{10}b^{18}} \cdot 3\sqrt[3]{9a^4b^7} =$ |
| 16. $6(\sqrt{6} + \sqrt{2}) =$ |
| 17. $-4(3\sqrt{5} + 2\sqrt{3}) =$ |
| 18. $7(6\sqrt{7} - 5\sqrt{11}) =$ |